



*Date of Application, 16th July, 1904—Accepted, 1st Sept., 1904*

# COMPLETE SPECIFICATION.

## "Improvements in Folding Scissors"

I, ERNST KAUFMANN, of Rheinstrasse 30, Solingen, Germany, Manufacturer, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:

5 This invention relates to scissors having handles of channel shape hinged to the shanks so as when folded to enclose the blades, and the present improvements consist in the arrangement of a pair of springs for the shanks connected together by means of a hinge-pin, in the provision of guides for the blades within the casing, in the provision of small steel plates between the coils of the  
10 springs and the casing and finally in the arrangement of such a fastening for the box-forming handles that in out-of-use position the blades are securely covered. The improved construction is cheaper and more readily adapted for production on a large scale.

In the accompanying drawing which illustrates the invention Fig. 1 is an  
15 elevation showing a pair of pocket scissors fully opened out: Fig. 2 is a part sectional elevation showing the same in closed position: Fig. 3 is a part sectional elevation showing the blades partly opened, and Fig. 4 shows the springs to enlarged scale.

As shown in the drawing, the blades *b, b*, provided with shanks *a<sup>1</sup>, a<sup>2</sup>*, are  
20 hinged in the usual manner to the members *d<sup>1</sup>, d<sup>2</sup>*, which when opened out serve as handles, and when folded serve to enclose the blades. Around the pivot of the one shank *d<sup>1</sup>* is helically coiled the wire spring *f<sup>1</sup>* and its end firmly secured to the shank. In like manner the shank *a<sup>2</sup>* is provided with a spring *f<sup>2</sup>*. Both  
25 springs *f<sup>1</sup>* and *f<sup>2</sup>* have eyes *o* at their free ends through which is inserted a pivot pin *g*, so that a hinge is thus provided on which said springs turn. Between the coils at the pivots of the shanks and the box-forming handles are inserted small polished steel plates which serve not only to guide and relieve the springs but also to strengthen the joint. Pressed into the members *d<sup>1</sup>, d<sup>2</sup>*, are the two  
30 crescent shaped metal plates *h, h*. On the outer end of one handle is provided a roller-hinge latch fastening *k* the projecting end of which engages a groove *n* in the other handle so as to maintain the handles in closed position as shown in Fig. 2.

After releasing the latch *k* the blades, under the action of the springs *f<sup>1</sup>, f<sup>2</sup>*  
are moved from the position shown in Fig. 1 to that shown in Fig. 3. The  
35 members *d<sup>1</sup>, d<sup>2</sup>* are turned further back to serve as extensions of the shanks and the scissors are then ready for cutting.

The plates *h, h*, are provided in place of the filed bolts previously used, and which plates possess the advantage that when necessary they may be cut down to any desired thickness. The riveting previously required is thus dispensed  
40 with. By the special formation of the springs, the shanks are also enabled to be enclosed by the box-forming handles, so that in out of use position the scissors occupy a minimum of space.

Instead of having the springs disposed in one plane, they may be transposed, that is they may cross the shanks as will be understood,

[Price 8d.]

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*Kaufmann's Improvements in Folding Scissors.*

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Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

- (1) The improved folding scissors substantially as described with reference to the annexed drawings. 5
- (2) The improved folding scissors with box-forming handles hinged to the shanks, the said shanks being each provided with a spring, the said springs being arranged to turn on a common pivot member, substantially as described.
- (3) In the improved folding scissors as set forth in Claim 2, the arrangement of crescent shaped guides for the blades in the box-forming handles, substantially as described with reference to the annexed drawings. 10
- (4) The improved folding scissors with box-forming handles hinged to the shanks, the said shanks being each provided with a spring, the said springs being arranged to turn on a common pivot member, and the said handles being provided with a roller-hinge latch fastening substantially as described. 15
- (5) The improved folding scissors with box-forming handles hinged to the shanks, the said shanks being each provided with a spring, the said springs being arranged to turn on a common pivot, and provided with polished steel plates between the coils of the springs and the handle-members, serving to guide and relieve the springs and to strengthen the joint, substantially as described. 20
- (6) The improved folding scissors, comprising, in combination, the blades *b*, and shanks *a*<sup>1</sup>, *a*<sup>2</sup>, the handles *d*<sup>1</sup>, *d*<sup>2</sup>, the springs *f*<sup>1</sup>, *f*<sup>2</sup>, the pin *g*, the guides *h*, and the latch fastening *k*, as shown and described.

Dated this 16th day of July, 1904.

CRUIKSHANK & FAIRWEATHER, 25  
Chartered Patent Agents,  
65 & 66 Chancery Lane, London, W.C. and  
62 Saint Vincent Street, Glasgow.  
Agents for the Applicant.

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Fig.1

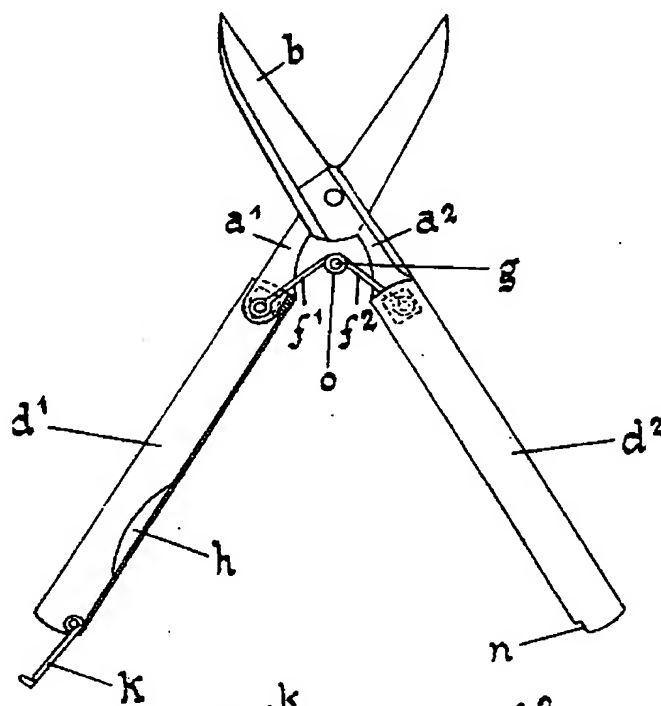


Fig.2

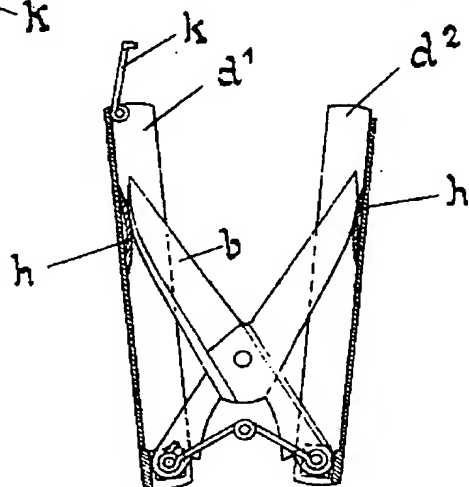
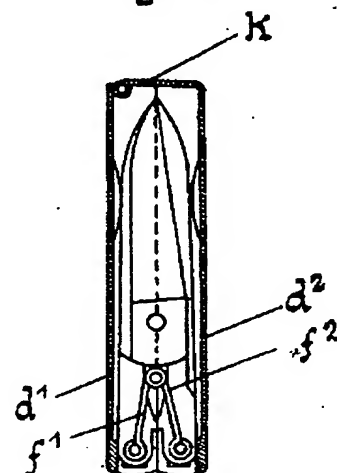


Fig.3

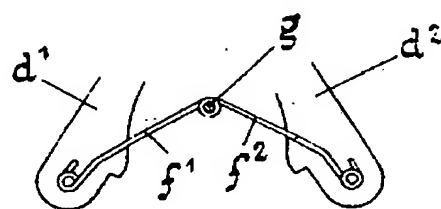


Fig.4

[This Drawing is a reproduction of the Original on a reduced scale]